IN THE CLAIMS

- 1. (Currently Amended) A NO_X control for an exhaust, comprising:
 a nickel compound comprising about 50 wt% to about 100 wt% nickel oxide
 based on total weight of the nickel compound; and
- a NO_X adsorber, wherein the NO_X -adsorber is selected for an oxygen content in said exhaust greater than about 1 molar% based on the total exhaust.

2 - 4. (Cancelled)

- 5. (Currently Amended) The NO_X control as in Claim 2, wherein said nickel compound comprises about 80 wt% to about 100 wt% nickel oxide based on total weight of the nickel-composition compound.
- 6. (Currently Amended) The NO_X control as in Claim 1, wherein said nickel compound emprises is a coating on said NO_X adsorber.
- 7. (Currently Amended) The NO_X control as in Claim 1, wherein said nickel compound comprises a plurality of particulates is particulates dispersed throughout with said NO_X adsorber.
- 8. (Currently Amended) The NO_X control as in Claim 1, wherein said nickel compound comprises <u>both</u> a coating on said NO_X <u>eatalyst system adsorber</u> and <u>further comprises</u> a plurality of particulates dispersed <u>throughout with said NO_X</u> adsorber.
- 9. (Currently Amended) The NO_X control as in Claim 1, wherein said nickel compound is <u>formed-disposed</u> on a first support, and <u>further wherein said NO_X</u> adsorber is <u>formed-disposed</u> on a second support-independent from said first support.
- 10. (Currently Amended) The NO_X control as in Claim 9, wherein said nickel compound <u>disposed</u> is configured for positioning in said exhaust upstream from said NO_X adsorber.

- 11. (Currently Amended) The NO_X control as in Claim 1, wherein said nickel compound is <u>formed</u> as a <u>self-supported</u> structure, and <u>further</u> wherein said NO_X adsorber is <u>formed_disposed</u> on a support, said support being independent from said structure.
- 12. (Original) The NO_X control as in Claim 1, wherein said NO_X adsorber comprises a catalyst material and a support, said catalyst material selected from the group consisting of cesium, barium, lanthanum, silver, zirconium, and alloys, oxides, and combinations comprising at least one of the foregoing catalyst materials.
 - 13. (Currently Amended) A system for treating an exhaust gas comprising: a non-thermal plasma reactor; and
- a NO_X control comprising a nickel compound and a NO_X adsorber, wherein the NO_X adsorber is selected for an oxygen content in said exhaust greater than about 1 molar% said nickel compound comprises about 50 wt% to about 100 wt% nickel oxide based on total weight of said nickel compound.
- 14. (Currently Amended) A system for treating an exhaust gas comprising:

 a first non-thermal plasma reactor;

 a particulate trap <u>disposed downstream from said non-thermal plasma reactor</u>;

 a second non-thermal plasma reactor <u>disposed downstream from said particulate</u>

 trap; and
- a NO_X control <u>disposed downstream from said second non-thermal plasma reactor and comprising a nickel compound and a NO_X adsorber, wherein the NO_X -adsorber is selected for an oxygen content in said exhaust greater than about 1 molar%.</u>
 - 15 17. (Cancelled)
- 18. (New) The NOx control as in Claim 12, wherein said support comprises a zeolite.

- 19. (New) The NOx control as in Claim 18, wherein said support further comprises alumina.
 - 20. (New) A NOx control, comprising:

a zeolite ion exchanged with a material selected from the group consisting of barium, cesium, lanthanum, silver, and combinations comprising at least one of the foregoing materials; and

a nickel compound coating on the zeolite, wherein said nickel compound comprises about 50 wt% to about 100 wt% nickel oxide based on total weight of said nickel compound.

- 21. (New) The NOx control as in Claim 20, wherein said nickel compound comprises about 80 wt% to about 100 wt% nickel oxide based on total weight of said nickel compound.
- 22. (New) The NOx control as in Claim 20, wherein said nickel compound is present in an amount of 15 wt% to 50 wt%, based upon the combined weight of said nickel compound and said zeolite.
 - 23. (New) The NOx control as in Claim 20, further comprising alumina.
- 24. (New) The NOx control as in Claim 1, wherein said nickel compound is present in an amount of 15 wt% to 50 wt%, based upon the combined weight of said nickel compound and said NOx adsorber.
- 25. (New) The NOx control as in Claim 1, wherein said NOx adsorber further comprises a zeolite.
- 26. (New) The NO_X control as in Claim 12, wherein said catalyst material selected from the group consisting of cesium, barium, and combinations comprising at least one of the foregoing catalyst materials.

- 27. (New) The NOx control as in Claim 1, wherein the nickel compound further comprises a material selected from the group consisting of silver oxide, chrome oxide, and combinations comprising at least one of the foregoing materials.
- 28. (New) The system for treating an exhaust gas as in Claim 14, wherein said nickel compound comprises about 50 wt% to about 100 wt% nickel oxide based on total weight of said nickel compound.